

## New Roads in Climate Engineering Advantages of Capillary Tube Mats

For temperature regulation in nature, water carrying capillary vessels have succeeded, so for example in the leaves of plants or beneath the human skin. Water will conduct heat 1000 times faster than air and therefore it is many times more effective.

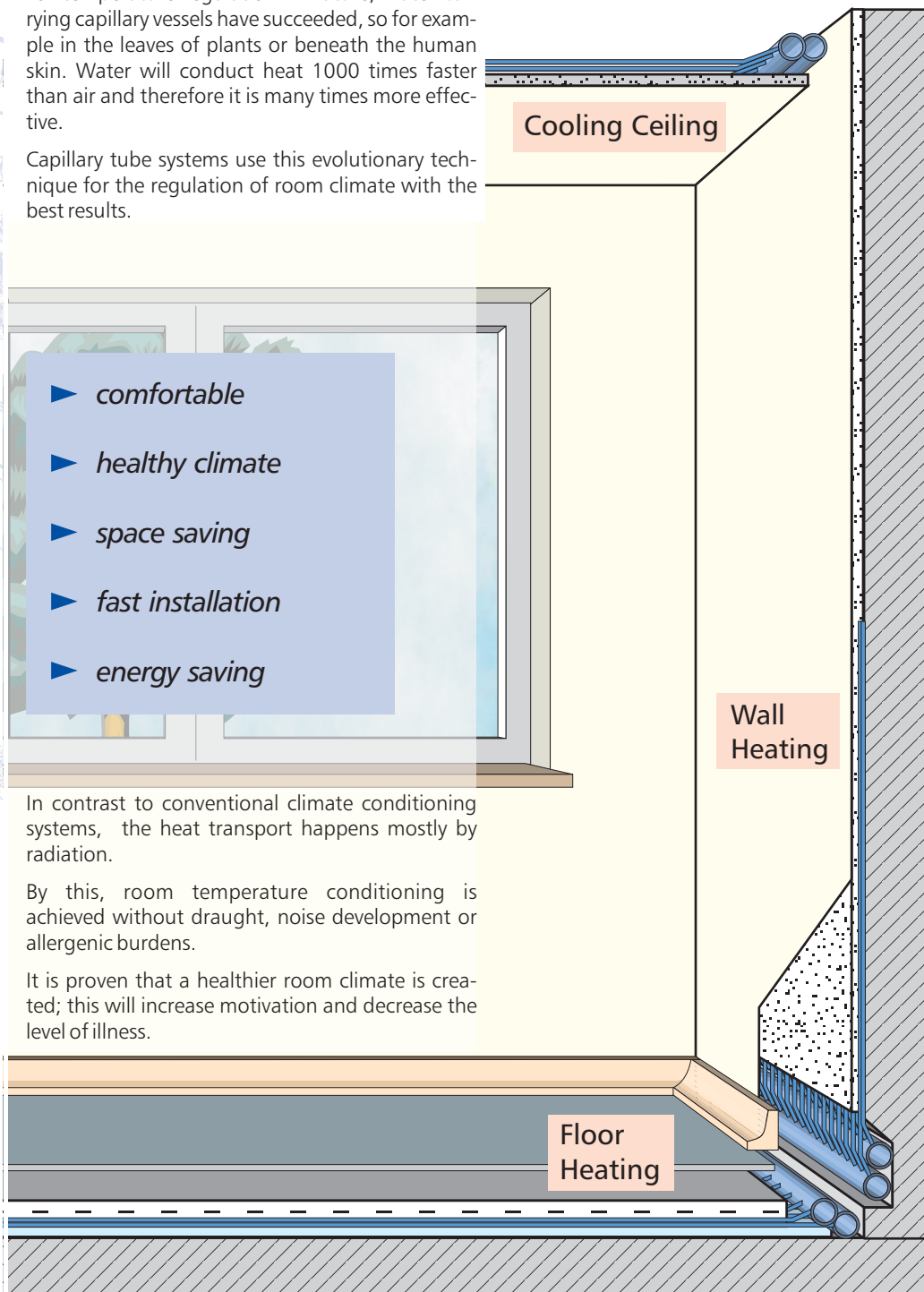
Capillary tube systems use this evolutionary technique for the regulation of room climate with the best results.

- ▶ *comfortable*
- ▶ *healthy climate*
- ▶ *space saving*
- ▶ *fast installation*
- ▶ *energy saving*

In contrast to conventional climate conditioning systems, the heat transport happens mostly by radiation.

By this, room temperature conditioning is achieved without draught, noise development or allergenic burdens.

It is proven that a healthier room climate is created; this will increase motivation and decrease the level of illness.



## BEKA Capillary Tube Engineering Heating and Cooling with Comfort

Cooling ceilings and surface heating with BEKA capillary tube mats offer a high degree of climate comfort.

Once installed beneath the plastering, dry-built boards or integrated in metal cassettes it is unobtrusive and space saving.

The obvious advantages are healthy room climate and low energy costs. But also the hidden qualities such as easy installation, high heating and cooling capacities and the flexibility of the material argue in favour of BEKA.



BEKA cooling ceiling as metal cassette ceiling



BEKA supply lines with quick-action couplings



BEKA cooling ceiling as plaster ceiling



BEKA cooling ceiling with dry-built prefabricated elements



BEKA cooling ceiling as dry-built-ceiling

## The Production Quality and Delivery in Due Time

Most modern production technologies and the experienced staff guarantee production with constant high quality.

Through a just-in-time production also short term deliveries will be past on to the forwarding companies in time, transporting the BEKA products to the construction site.

With 15 years warranty on all BEKA products we pass our security on to you.



15 years warranty



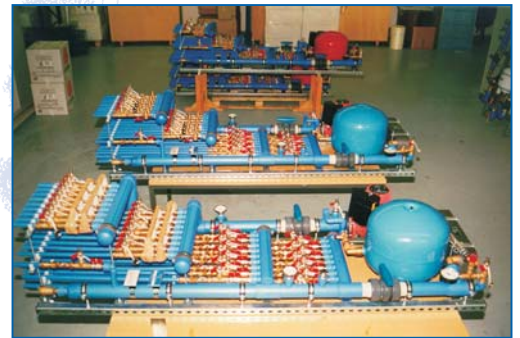
Technical Hotline  
+49 (0) 30  
474 114 -32  
or by Fax -35



BEKA quality test with 20 bar



Production area of about 2.000 m<sup>2</sup>



Fabrication of storey stations and distributors according to plan



Delivery via parcel service or on pallets via carrier



## BEKA Capillary Tube Mats At all times the right choice

BEKA capillary tube mats are utilised for heating- and cooling mats in cooling ceilings and surface heating systems. For each application there is an optimal suitable type of mat.

The BEKA mats U10 and UM10 are suitable ideally for the application in metal cassette ceilings.

The BEKA mat K.S15 had been specially designed for plaster ceilings and surface heating systems.

The BEKA mats Type G are suitable in particular for applications on plaster boards and for numerous special-applications, e.g. in concrete. All BEKA mats can be connected to another either by quick action couplings or through welding.

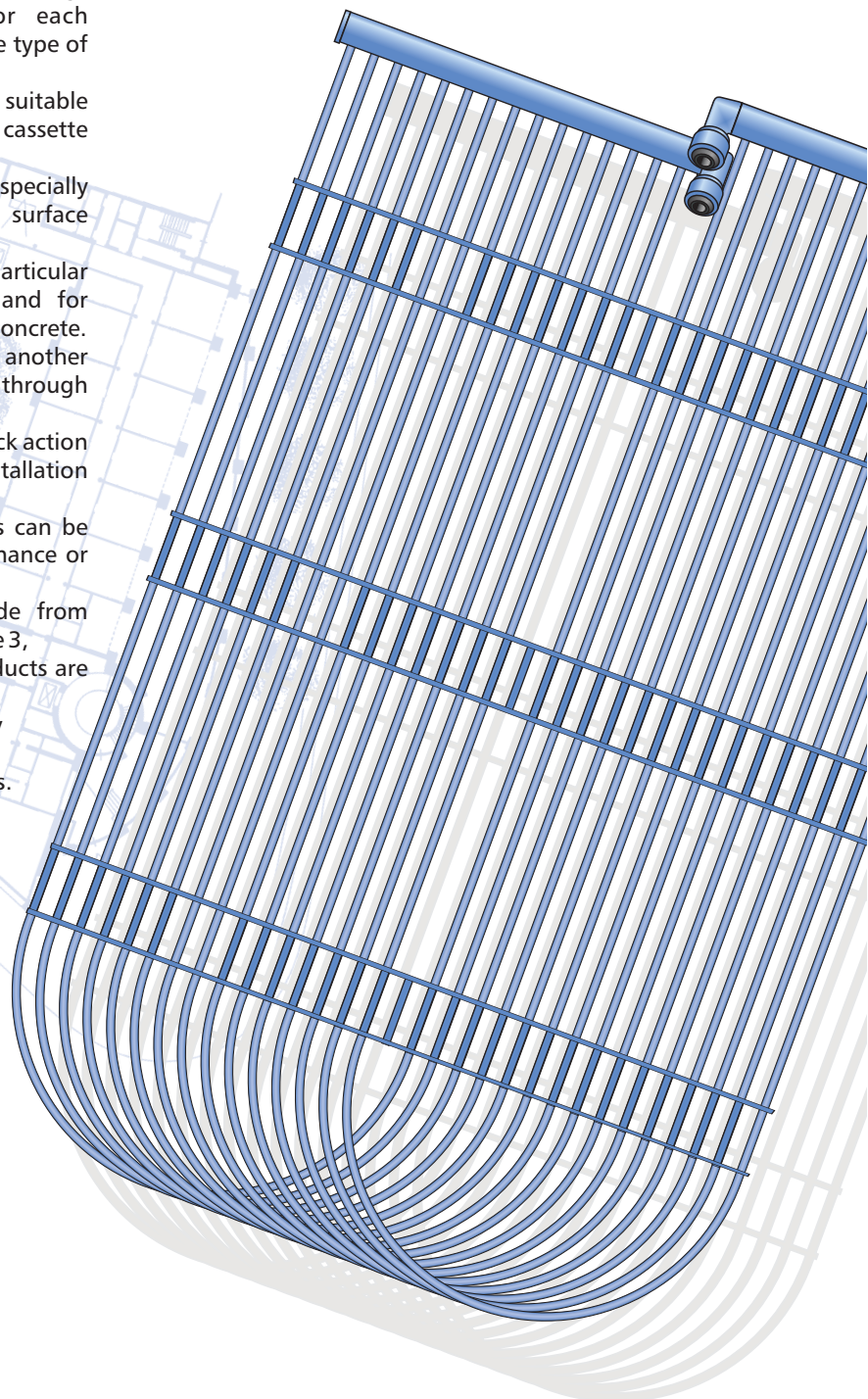
Due to the connecting system with quick action couplings and flexible hoses, the installation work is done fast and safely.

With metal ceilings the ceiling panels can be flapped down at all times for maintenance or for installation work.

The BEKA mats are exclusively made from Polypropylene Random Copolymer Type 3, DIN 8078. Consequently all BEKA products are weldable to each other.

The uniformly high quality is ensured by our 100% quality in-spection as well as a 15-year warranty on all BEKA products.

15 years  
warranty



# WARRANTY

for products of BeKa Heiz- und Kühlmatten GmbH



- BEKA products are made of high-quality materials and are subject to strict control in purchase, manufacture and delivery.
- All BEKA products undergo quality controls during the manufacturing process in line with operational standards.
- BeKa Heiz- und Kühlmatten GmbH gives a warranty for all its products, if expertly assembled, of

**15 years**

as of the date of the transfer of risks.

For consequential and third-party damages a product liability insurance with a coverage of

**5 million Euros**

has been taken out with a leading German insurance company.

Berlin, 15/12/2001

A handwritten signature in black ink, appearing to read "Kremer".

Josef Kremer, Manager

A handwritten signature in black ink, appearing to read "Sobczyk".

Reinhard Sobczyk, Manager



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